Science, Technology, and Society – C389

Overview
Science, Technology, and Society explores the ways in which science influences and is influenced by society and technology. A humanistic and social endeavor, science serves the needs of ever-changing societies by providing methods for observing, questioning, discovering, and communicating information about the physical and natural world. This course prepares educators to explain the nature and history of science, the various applications of science, and the scientific and engineering processes used to conduct investigations, make decisions, and solve problems. There are no prerequisites for this course.

Competencies
- **Common Themes in Science**
  - The graduate analyzes the relationships among themes that appear across multiple scientific ideas.
- **Nature of Science**
  - The graduate analyzes the nature of science, including how science distinguishes itself from other ways of knowing.
- **Historical Development of Science**
  - The graduate analyzes the historical development of science, including how scientific knowledge evolves.
- **Interrelationship of Science, Technology, and Society**
  - The graduate analyzes the various ways in which science, technology, and society are interrelated.
- **Analyzing Issues and Making Decisions**
  - The graduate analyzes socially relevant scientific issues to make informed decisions based on data and context.
- **Investigations in Science**
  - The graduate analyzes the principles, processes, and assumptions of investigations in science to engage students in the nature of inquiry.
- **Improving Investigations and Communication**
  - The graduate uses technology tools and mathematics to improve investigations and the communication of results.
- **Hypotheses and Scientific Investigations**
  - The graduate formulates testable hypotheses for scientific investigations.
- **Designing and Conducting Investigations**
  - The graduate conducts investigations in science to solve open-ended problems using appropriate scientific methods.

Learning

**Getting Started**
Welcome to Science, Technology, and Society! The coursework takes an average of 8 weeks to complete. Learning resources for this course include a combination of websites, textbooks and videos. Frequent learning activities accompany the learning resources to support learning. Modules, textbook links, videos, and learning activities are all housed inside the Smart Author system. Each module contains learning activities that will give you opportunities to test your knowledge, practice new skills, and sharpen critical thinking skills. Competency in this course is demonstrated by the successful completion of an objective assessment and a performance assessment.

**Cohort Sign–up**
Cohorts provide additional structure and support for challenging aspects of this course. In a cohort you receive specific homework assignments and meet online with mentors and students regularly to discuss the challenging topics.

**Assessments**
- **Pre-Assessment: Science, Technology, and Society**
  - STATUS: Not Attempted
  - # OF ITEMS: 36
  - TIME ALLOCATED: 90 minutes
  - CODE: PZPC

https://my.wgu.edu/courses/course/8320004
A score of Competent or Exemplary is required to pass all assessments. Passing a preassessment does not guarantee you will pass the high-stakes assessment.

On objective assessments, you will be charged a retake fee for the third attempt and every attempt thereafter. For more information click here.